



PRODUCT-DETAILS

AF45-40-00 48-130V 50Hz / 48-130V 60Hz /
48-130V DC

AF45-40-00 48-130V 50Hz / 48-130V 60Hz /
48-130V DC Contactor



概要信息	
产品型号	AF45-40-00 48-130V 50Hz / 48-130V 60Hz / 48-130V DC
产品ID	1SBL337201R6900
欧洲商品编号(EAN)	3471522114495
目录说明	AF45-40-00 48-130V 50Hz / 48-130V 60Hz / 48-130V DC Contactor
详细描述	AF45 4-pole contactors are mainly used for controlling non-inductive or slightly inductive loads (i.e. resistance furnaces...) and generally for controlling power circuits up to 690 V AC and 440 V DC. The contactors can also be used for many other applications such lighting... The AF... contactors are fitted with an electronic coil interface which accepts a wide control voltage range, on AC 50/60 Hz or DC supplies. The same contactor can accept various supply voltages according to the different countries where the electrical equipment will be installed, or some fluctuation in the control voltage due to the local supply or network. The AF... contactors are also fully suitable for operation in AC or DC control circuit liable to voltage interruptions or voltage dip risks. Advantages: - Wide voltage range, e.g. 100 ... 250 V AC and DC - Can manage large voltage variations - Reduced power consumption - Very distinct closing and opening - Noise free - Can withstand voltage interruptions or voltage dips in the control supply (≤ 20 ms). The AF... series 4-pole contactors are of the block type design. - Main poles and auxiliary contact blocks: 4 N.O. main poles, front and side-mounted add-on auxiliary contact blocks - Control circuit: AC or DC operated - Accessories: a wide range of accessories is available.

订货信息	
最小起订量	1 piece
海关关税号	85364900

Popular Downloads	
数据手册, 技术资料	1SNC001003C0202
说明书和手册	FPTC407734P0003
CAD Dimensional Drawing	2CDC001079B0201

尺寸	
产品净宽	92 mm
产品净深	119.5 mm
产品净高	110 mm
产品净重	1.42 kg

技术参数	
主触点NO数量	4
主触点NC数量	0
辅助触点NO数量	0
辅助触点NC数量	0
标准	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 508, CSA C22.2 No. 14, IEC 60077-1 (applicable parts), IEC 60077-2 (applicable parts), EN 50155 (applicable parts), TR CU 001/2011 (on request), IEC 61373, For compliance confirmation on applicable parts based on your application and combination, please consult your ABB sales representatives.
额定工作电压	Main Circuit 690 V
额定频率 (f)	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
额定发热电流（自由空气）(I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 100 A
额定工作电流 AC-1 (I _e)	(690 V) 40 °C 70 A (690 V) 55 °C 60 A (690 V) 70 °C 50 A
额定工作电流 AC-3 (I _e)	(415 V) 55 °C 37 A (440 V) 55 °C 37 A (500 V) 55 °C 33 A (690 V) 55 °C 25 A (380 / 400 V) 55 °C 37 A (220 / 230 / 240 V) 55 °C 40
额定工作功率 AC-3 (P _e)	(415 V) 25 kW (440 V) 25 kW (500 V) 30 kW (690 V) 30 kW (380 / 400 V) 22 kW (220 / 230 / 240 V) 15 kW
短路保护设备	gG Type Fuses 80 A
额定不间断电流 (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 650 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 110 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 250 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 1000 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 370 A
最大分断容量	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 900 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 490 A
最高电气切换频率	(AC-1) 300 cycles per hour

	(AC-2 / AC-4) 150 cycles per hour (AC-3) 300 cycles per hour
额定工作电流 DC-1 (I _e)	(110 V) 2 Poles in Series, 40 °C 70 A (110 V) 2 Poles in Series, 55 °C 60 A (110 V) 2 Poles in Series, 70 °C 50 A (110 V) 3 Poles in Series, 40 °C 70 A (110 V) 3 Poles in Series, 55 °C 60 A (110 V) 3 Poles in Series, 70 °C 50 A (110 V) 4 Poles in Series, 40 °C 70 A (110 V) 4 Poles in Series, 55 °C 60 A (110 V) 4 Poles in Series, 70 °C 50 A (220 V) 3 Poles in Series, 40 °C 70 A (220 V) 3 Poles in Series, 55 °C 60 A (220 V) 3 Poles in Series, 70 °C 50 A (220 V) 4 Poles in Series, 40 °C 70 A (220 V) 4 Poles in Series, 55 °C 60 A (220 V) 4 Poles in Series, 70 °C 50 A (72 V) 1-Pole, 40 °C 70 A (72 V) 1-Pole, 55 °C 60 A (72 V) 1-Pole, 70 °C 50 A (72 V) 2 Poles in Series, 40 °C 70 A (72 V) 2 Poles in Series, 55 °C 60 A (72 V) 2 Poles in Series, 70 °C 50 A (72 V) 3 Poles in Series, 40 °C 70 A (72 V) 3 Poles in Series, 55 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A (72 V) 4 Poles in Series, 40 °C 70 A (72 V) 4 Poles in Series, 55 °C 60 A (72 V) 4 Poles in Series, 70 °C 50 A
额定工作电流 DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 70 A (110 V) 2 Poles in Series, 55 °C 60 A (110 V) 2 Poles in Series, 70 °C 50 A (110 V) 3 Poles in Series, 40 °C 70 A (110 V) 3 Poles in Series, 55 °C 60 A (110 V) 3 Poles in Series, 70 °C 50 A (110 V) 4 Poles in Series, 40 °C 70 A (110 V) 4 Poles in Series, 55 °C 60 A (110 V) 4 Poles in Series, 70 °C 50 A (220 V) 3 Poles in Series, 40 °C 70 A (220 V) 3 Poles in Series, 55 °C 60 A (220 V) 3 Poles in Series, 70 °C 50 A (220 V) 4 Poles in Series, 40 °C 70 A (220 V) 4 Poles in Series, 55 °C 60 A (220 V) 4 Poles in Series, 70 °C 50 A (72 V) 1-Pole, 40 °C 70 A (72 V) 1-Pole, 55 °C 60 A (72 V) 1-Pole, 70 °C 50 A (72 V) 2 Poles in Series, 40 °C 70 A (72 V) 2 Poles in Series, 55 °C 60 A (72 V) 2 Poles in Series, 70 °C 50 A (72 V) 3 Poles in Series, 40 °C 70 A (72 V) 3 Poles in Series, 55 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A (72 V) 4 Poles in Series, 40 °C 70 A (72 V) 4 Poles in Series, 55 °C 60 A (72 V) 4 Poles in Series, 70 °C 50 A
额定工作电流 DC-5 (I _e)	(110 V) 2 Poles in Series, 40 °C 70 A (110 V) 2 Poles in Series, 55 °C 60 A (110 V) 2 Poles in Series, 70 °C 50 A (110 V) 3 Poles in Series, 40 °C 70 A (110 V) 3 Poles in Series, 55 °C 60 A (110 V) 3 Poles in Series, 70 °C 50 A (110 V) 4 Poles in Series, 40 °C 70 A (110 V) 4 Poles in Series, 55 °C 60 A (110 V) 4 Poles in Series, 70 °C 50 A (220 V) 3 Poles in Series, 40 °C 50 A (220 V) 3 Poles in Series, 55 °C 50 A (220 V) 3 Poles in Series, 70 °C 50 A (220 V) 4 Poles in Series, 40 °C 70 A (220 V) 4 Poles in Series, 55 °C 60 A (220 V) 4 Poles in Series, 70 °C 50 A

	(72 V) 1-Pole, 40 °C 50 A (72 V) 1-Pole, 55 °C 50 A (72 V) 1-Pole, 70 °C 50 A (72 V) 2 Poles in Series, 40 °C 70 A (72 V) 2 Poles in Series, 55 °C 60 A (72 V) 2 Poles in Series, 70 °C 50 A (72 V) 3 Poles in Series, 40 °C 70 A (72 V) 3 Poles in Series, 55 °C 60 A (72 V) 3 Poles in Series, 70 °C 50 A (72 V) 4 Poles in Series, 40 °C 70 A (72 V) 4 Poles in Series, 55 °C 60 A (72 V) 4 Poles in Series, 70 °C 50 A
额定绝缘电压 (U _i)	acc. to IEC 60947-4-1 1000 V acc. to UL/CSA 600 V
额定冲击耐受电压 (U _{imp})	8 kV
机械寿命	10 million
最高机械切换频率	300 cycles per hour
额定控制电路电压 (U _c)	50 Hz 48 ... 130 V 60 Hz 48 ... 130 V DC Operation 48 ... 130 V
线圈功耗	Holding at Max. Rated Control Circuit Voltage 50 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 50 Hz 2.8 W Holding at Max. Rated Control Circuit Voltage 60 Hz 7 V·A Holding at Max. Rated Control Circuit Voltage 60 Hz 2.8 W Pull-in at Max. Rated Control Circuit Voltage 50 Hz 210 V·A Pull-in at Max. Rated Control Circuit Voltage 60 Hz 210 V·A
工作时间	Between Coil De-energization and NC Contact Closing 35 ... 115 ms Between Coil De-energization and NO Contact Opening 30 ... 110 ms Between Coil Energization and NO Contact Closing 30 ... 100 ms
安装到DIN导轨上	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH75-25 (75 x 25 mm Mounting Rail) acc. to IEC 60715
螺钉安装（螺钉须自备）	2 x M6 screws placed diagonally
主电路连接容量	Flexible with Cable End 6 ... 16 mm ² Rigid Cable 6 ... 25 mm ²
辅助电路连接容量	Flexible with Cable End 0.75 ... 2.5 mm ² Rigid Cable 1 ... 4 mm ²
防护等级	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP10
端子类型	Screw Terminals

UL/CSA适用的技术参数

最高工作电压UL/CSA	Main Circuit 600 V
通用等级UL/CSA	(600 V AC) 80 A

环境条件

周围环境温度	Close to Contactor for Storage -60 ... +80 °C Near Contactor for Operation in Free Air -40 ... 70 °C
允许的最高工作海拔	Without Derating 3000 m
抗机械冲击符合IEC 60068-2-27标准	Closed, Shock Direction: B1 10 g Open, Shock Direction: B1 5 g Shock Direction: A 20 g Shock Direction: B2 15 g Shock Direction: C1 20 g Shock Direction: C2 20 g
Shock and Vibration Withstand acc. to IEC 61373	Category 1, Class B

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS信息	2CMT2021-006277
RoHS状态	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
WEEE B2C / B2B	Business To Business
WEEE 类别	5. Small Equipment (No External Dimension More Than 50 cm)

认证及声明（文件编码）	
CB认证	CB_CN45489
CCC认证	CCC_2018010304134049
CQC认证	CQC2018010304134049
CSA 认证	CSA_1033838_LR056745
Declaration of Conformity - CCC	2020980304001624
符合性声明 - CE	1SBD250803U1000
Declaration of Conformity - UKCA	1SBD250820U1000
EAC认证	EAC_RU C-FR ME77 B01010
GOST认证	GOST_POCCFRME77B07175
UL认证	UL_20120830-E312527-10-1
UL列表卡	UL_E312527

包装信息	
1级包装单元	1 piece
1级包装宽度	142 mm
1级包装长度	190 mm
1级包装高度	136 mm
1级包装 总重	1.42 kg
1级包装 EAN	3471522114495
2级包装单元	box 8 piece
2级包装宽度	503 mm
2级包装长度	153 mm
2级包装高度	307 mm
2级包装 总重	11.36 kg
3级包装单元	84 piece

分类	
对象分类代码	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
e级	V11.0 : 27371003
UNSPSC	39121529

分类

低压产品及系统 → 控制产品 → 接触器 → 模块化接触器 → AF Contactors → AF45

